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The Files		19 March 1956
Trip Report,		
	h 1956 a trip was made to for the purpose of t	o echnical discussione Those present at
econference were		The binage of
me per minute. facilitate fast tuated stopping or iO-second rece ries of sliding of seping drum to a a mamber of know ide on a given p	An increductor circuit wand accurate stapping of sircuitry in order to proporting periods of any significant the operator to provided like the operator to provide unwanted signals in the critical on the drum or directively skip by apprenticed of the circuit of the control of the critical of the critic	e of approximately 10 could be incorporated this system with signal-wide for recording of mal in this reage. A lon the mechanical rent stop and recording his area by placing a loc as the case may be.
	visioned that a single to	

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motors and transisters throughout except for the oscillator, it is calculated that approximately 150 ampere hours of battery life

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would provide close to the required 100-hour operation. It has been tentotively sensidered possible to utilize the Signal Corps 18802U, which is a 6-volt 80-empere battery contained in a rather small package. This bettery is a dry-charged type utilizing an alkeli electrolyte, which would provide for almost an unlimited shelf-life during the walk-in period and would furnish full power upon activation by inserting the electrolyte.

specially designed recorder, carrying demodulated FM on one track, AM on the second, and the third track consisting of a 6000-cycle tone for speed indication. Modulating this 6000-cycle tone up to 10 kc for frequency indication and providing a band below 6000 cycles for voice programming and comments by the operator, this latter portion of the system would require only a single channel. It was visualized that a four-minute endless belt be utilized in the form of a cartridge containing sufficient tape for this period. This would allow the operator to record and crase continuously for a period of a half-hour of more, during which time the entire band could be monitored.

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- 4. It was enticipated that one or more of three types of antennas may be used. One possible antenna for this application, especially at the lower portion of the range, would be a version of the ferrite type. For the higher portion of the range and for intercepting either vertically polarized or perhaps circularly polarized signals, it is proposed that a printed antenne be utilized. This sateons would consist of a sheet of plastic with the astenne in a spiral or other form printed on the plastic. The plastic would be capable of being camouflaged, colled up, folded, etc., and would be almost weightless as a portion of the 60 lb. package. The contractor has declared that the problem of oscillator radiation through the entenna oppears to be quite serious. According to their calculations, with the proposed oscillator operating directly into the enterma, the signal strength of the oscillator radiction at an area 30 miles from the operation would be in the vicinity of 3 to 5 microvolts, which is considered to be guite serious. Consideration is being given to methods for preventing this radiation from becoming this extensive.
 - 5. The contractor has indicated that they would accept this project as a complete system and deliver in the time specified the complete system. It may be necessary to sub-contract antenna and

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livered by his project will be investigated in an attempt to provide ional assistance to the contractor in the design of this	equip-
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